



National Weather Service

Storm Data and Unusual Weather Phenomena



July 2000

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage	Character of Storm
					Killed	Injured	Property Crops	

MICHIGAN, East

MIZ068

Livingston

01 0000EST
08 1800EST

0 0

Flood

The Huron River at Hamburg rose above flood stage after heavy rain in June. The river crested late in June, but remained above flood stage of 6 feet until 7 pm EDT on July 8th.

Oakland County

White Lake

02 1837EST

0 0

Hail (0.75)

An isolated severe thunderstorm dumped dime sized hail at M-59 and Ormond Road.

MIZ076

Wayne

03 1600EST
2000EST

0 0

Flood

Thunderstorms dumped heavy rain on parts of metro Detroit on the night of the 2nd, with around 2 inches of rain in northern Wayne County. Runoff from the heavy rain caused the Rouge River at Detroit to crest at flood stage (15 feet) between 5 pm and 9 pm EDT on the 3rd.

Huron County

Bad Axe

09 0700EST

0 0

35K

Lightning

A lightning strike at Huron County Central Dispatch disabled computers and phone lines at the center, as well as the rest of the county administrative building.

MIZ075

Washtenaw

10 1300EST
2100EST

0 0

40K

Flood

Thunderstorms developed along a stationary front that lay west to east across southern lower Michigan. Up to three inches of rain fell on the south side of Ann Arbor, producing basement flooding and sewer backups. A railroad underpass flooded in Pittsfield Township, and street flooding was also observed in Ypsilanti.

Tuscola County

Unionville

13 2015EST

0 0

Hail (0.88)

Tuscola County

Caro

13 2050EST

0 0

Hail (0.75)

An isolated severe thunderstorm moved southeast off of Saginaw Bay, dumping dime to nickel sized hail

Sanilac County

**Applegate to
3 W Lexington**

14 1217EST
1229EST

0 0

Hail (1.75)

Genesee County

**Flint to
Burton**

14 1225EST
1236EST

0 0

Hail (1.75)

Lapeer County

1 NW Lapeer

14 1234EST

0 0

Hail (0.75)

Genesee County

3 N Goodrich

14 1245EST

0 0

Hail (0.75)

Saginaw County

Saginaw

14 1300EST

0 0

60K

Thunderstorm Wind (G55)

Shiawassee County

Perry

14 1300EST

0 0

Hail (1.00)



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<u>MICHIGAN, East</u>									
Oakland County Holly	14	1305EST			0	0			Hail (0.75)
St. Clair County 5 NNW Port Huron to Port Huron	14	1305EST 1308EST			0	0			Hail (1.75)
Genesee County Fenton	14	1335EST			0	0			Thunderstorm Wind (G52)
St. Clair County Marine City	14	1343EST			0	0			Hail (1.25)
St. Clair County Marine City	14	1343EST			0	0			Thunderstorm Wind (G52)
St. Clair County Algonac	14	1400EST			0	0	125K		Hail (2.75)
Oakland County 3 S Pontiac	14	1408EST			0	0			Hail (0.75)
Genesee County Flint to 1 E Burton	14	1413EST			0	0			Hail (1.00)
Lapeer County Imlay City	14	1443EST			0	0			Hail (0.75)
Oakland County 7 SW Pontiac to 6 SW Pontiac	14	1445EST			0	0			Hail (0.75)
Washtenaw County Ann Arbor	14	1445EST			0	0			Hail (0.75)
Tuscola County Millington	14	1454EST			0	0	10K		Thunderstorm Wind (G54)
Washtenaw County 1 N Whittaker	14	1454EST			0	0			Hail (0.75)
Lenawee County Clinton	14	1500EST			0	0			Hail (1.00)
Livingston County 2 NE Hartland	14	1515EST			0	0			Hail (1.75)
Livingston County 3 SE Hartland	14	1525EST 1530EST			0	0			Hail (1.50)
Huron County 1 N Owendale	14	1530EST			0	0			Hail (0.75)
Tuscola County 5 NW Cass City	14	1540EST			0	0	3K		Thunderstorm Wind (G50)
Oakland County South Lyon	14	1545EST			0	0			Hail (1.00)
Shiawassee County 2.5 E Juddville	14	1635EST			0	0			Hail (0.75)
Genesee County Grand Blanc	14	1653EST 1655EST			0	0			Hail (0.75)
Genesee County 2.5 NNE Gaines	14	1700EST			0	0	40K		Thunderstorm Wind (G69)



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MICHIGAN, East

Genesee County

3 NW Argentine

14 1707EST 0 0 Hail (0.75)

A weak cold front moved through southeast Michigan on July 13th, ushering in slightly cooler and less humid air. However, thanks to a strong upper level disturbance, temperatures aloft cooled off much more quickly. This cold air aloft, combined with ample heating from sunshine on the 14th, resulted in an unstable atmosphere. Thunderstorms developed explosively early in the afternoon, and many became severe.

Large hail was the predominant severe weather type on this day. The strongest storm of the day was a supercell that moved south along the Lake Huron lake breeze boundary. This storm developed near Port Sanilac, and moved through Port Huron before exiting the area near Algonac. Golfball sized hail was reported near Lexington and Port Huron with this storm. Hailstones as large as baseballs crashed down on Algonac, damaging cars and roofs, ripping gutters off of homes, denting air conditioning units, and breaking windows. The force of impact when these hailstones landed in Algonac canals propelled water 5 feet into the air. Several other storms produced large hail, though none as large as in Algonac. Golfball sized hail also fell in metro Flint, as well as near Hartland. Dime, nickel, and quarter sized hail was quite common.

Wind damage was not as widespread, though a few very strong gusts occurred. Numerous trees were downed between Gratiot and Court Streets in Saginaw, damaging vehicles, fences, and outbuildings. A few trees were also downed by severe thunderstorm winds in Millington and Gagetown. Near the end of the episode, a severe thunderstorm produced estimated 80 mph winds near Gaines. Several agricultural outbuildings were heavily damaged or destroyed.

Macomb County

Washington

27 1423EST
1425EST 0 0 Hail (1.00)

Macomb County

Washington to
Macomb

27 1430EST
1630EST 0 0 10K Flash Flood

Macomb County

Washington

27 1430EST 0 0 5K Thunderstorm Wind (G52)

Sanilac County

4 NE Deckerville

27 1605EST 0 0 10K Hail (0.75)

Sanilac County

4 NE Deckerville

27 1605EST 0 0 3K Thunderstorm Wind (G50)

Saginaw County

Fosters

27 1838EST 0 0 Hail (0.75)

Lapeer County

Lapeer

27 1920EST 0 0 Hail (0.75)

Genesee County

Mt Morris

27 1931EST 0 0 Hail (0.75)

Lapeer County

Dryden

27 2000EST 0 0 650K Lightning

Lightning struck a staircase manufacturing company. The building was destroyed in the resulting fire, and a neighboring flooring company was damaged.

Lapeer County

Otter Lake

27 2045EST 0 0 Hail (0.75)



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MICHIGAN, East

Sanilac County

Sandusky	27	2045EST			0	0	15K		Lightning
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A lightning strike ignited a fire that partially destroyed a barn.

Genesee County

Gaines	27	2143EST			0	0			Hail (0.75)
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Sanilac County

12 N Marlette to Deckerville	27 28	2230EST 0100EST			0	0	35K		Flash Flood
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Thunderstorms developed along the lake breeze fronts as they moved inland off of Lakes Huron and St Clair. Several of these became marginally severe, producing hail up to the size of quarters. The largest hail fell in Washington Township in Macomb County. A couple of storms produced wind gusts approaching 60 mph, downing large tree limbs in Washington Township and near Deckerville. The storms were also slow movers, producing locally heavy rain. Flash flooding covered roads in Macomb Township to 18 inches deep. Six roads were washed out in northern Sanilac County, and water was two feet deep over M-53

Genesee County

Flint	28	0310EST			0	0			Hail (0.75)
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Lapeer County

Lapeer	28	0405EST 0415EST			0	0	5K		Thunderstorm Wind (G52)
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Genesee County

Linden	28	0555EST			0	0			Hail (0.75)
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A small cluster of thunderstorms developed ahead of a warm front that was slowly moving north across metro Detroit. These storms produced dime sized hail in Flint and Linden. In Lapeer, a spotter estimated 60 mph gusts, and some trees were blown down

Macomb County

3 N Utica	28	1435EST			0	0			Hail (1.50)
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Macomb County

3 N Utica	28	1435EST			0	0	6K		Thunderstorm Wind (G52)
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Shiawassee County

Bancroft	28	1530EST			0	0	5K		Thunderstorm Wind (G52)
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Washtenaw County

Saline	28	1540EST			0	0			Hail (0.75)
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Washtenaw County

Saline	28	1556EST			0	0			Hail (0.75)
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Livingston County

Fowlerville	28	1559EST			0	0			Hail (0.75)
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Lenawee County

Clinton	28	1620EST			0	0			Hail (1.00)
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Washtenaw County

4 W Chelsea to Milan	28	1636EST 1830EST			0	0	20K		Flash Flood
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St. Clair County

Yale	28	1721EST			0	0			Hail (1.00)
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Wayne County

Livonia	28	1725EST			0	0			Hail (0.75)
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July 2008									
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons		Estimated Damage		Character of Storm
KilledInjuredPropertyCrops									
<u>MICHIGAN, East</u>									
Oakland County Birmingham	28	1742EST 1751EST			0	0			Hail (1.00)
Lapeer County Almont	28	1821EST 1827EST			0	0			Hail (1.00)
Oakland County Novi to Birmingham	28	1825EST 2115EST			0	0	25K		Flash Flood
Wayne County Detroit	28 29	1830EST 0030EST			0	0	150K		Flash Flood
Lapeer County Metamora to Imlay City	28	1835EST 2115EST			0	0	50K		Flash Flood
Macomb County 1 S Romeo	28	1905EST			0	0	1M		Lightning
A lightning strike started a fire that destroyed an automall									
Macomb County Countywide	28	1910EST 2115EST			0	0	25K		Flash Flood
<p>An upper level low pressure system was entrenched in the western Great Lakes, maintaining cool air aloft across the region. Thunderstorms developed in the heat of the day, with the most widespread activity developing along the Lake Michigan lake breeze boundary in western lower Michigan. These storms organized as they moved slowly but steadily eastward, evolving into a squall line that crossed southeast Michigan in the late afternoon and early evening hours.</p> <p>Several of the thunderstorms became severe. Only a couple of storms produced damaging wind; large hail was the most common type of severe weather. An isolated storm ahead of the squall line produced silver dollar sized hail in Shelby Township (Macomb County); this was the largest hail report of the day. The same storm downed trees in that area. Trees were also downed in Bancroft due to severe thunderstorm winds. The rest of the severe weather was composed of dime to quarter sized hail events</p> <p>For some parts of southeast Michigan - particularly metro Detroit - this was the third straight day of thunderstorm activity. As mentioned above, the storms tended to move slowly, and thus dumped very heavy rain. Macomb County had seen another batch of storms earlier on the 28th; rainfall totals in the central part of county were as high as five and a half inches. Another nearly stationary cluster of storms produced 4 to 5 inches of rain near Saline and Milan. Runoff from these downpours produced flash flooding across parts of the area.</p> <p>Interstate 94 was closed near Chelsea due to flooding. Many streets in and around Saline flooded, and the Saline River rose out of its banks. Urban flooding was widespread in Detroit, with many freeways closed, and some industrial facilities flooded. In Novi, a stranded family was rescued by a boat after their car stalled in flood waters. Davison Lake Road in Lapeer County was washed out south of Metamora, while water was several feet deep across roads in Almont and Imlay City. In Almont, the flood waters approached the front doors of homes and businesses.</p>									
Genesee County Flint	29	0748EST 1015EST			0	0	35K		Flash Flood



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MICHIGAN, East

Macomb County

5 N Utica to
St Clair Shrs

29	1130EST 1430EST				0	0	125K		Flash Flood
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Wayne County

Detroit to
Harper Woods

29	1130EST 1530EST				0	0	15K		Flash Flood
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The fourth straight day with areas of heavy rain due to thunderstorms. One cluster of showers and thunderstorms persisted over Genesee County for much of the morning, dumping 2.65 inches of rain on Bishop Airport (after 2.26 inches the previous day). The resulting flood waters left just one lane of Interstate 75 open in each direction in Flint, and contributed to a major accident involving a large truck. Toward midday, more storms developed over metro Detroit. One observer in Shelby Township (Macomb County) totaled almost 8 inches of rain from the 26th through the 29th. With soils already saturated, flooding developed rapidly in Wayne and Macomb Counties. Roads were flooded and closed in Shelby Township and Warren. The Clinton River rose out of its banks in Utica, flooding a senior housing complex. Numerous basements were flooded in Eastpointe. In Wayne County, Interstate 94 at Livernois had high water for several hours, and many surface streets in Harper Woods were impassible. Parts of the Lodge Freeway and Interstate 94 were closed.